

### Product type designation

### SCALANCE X112-2

SCALANCE X112-2, UNMANAGED IE SWITCH, 12 X 10/100MBIT/S RJ45 PORTS, 2 X 100MBIT/S MULTIMODE BFOC, LED-DIAGNOSIS, FAULT SIGNAL CONTACT WITH SET BUTTON, REDUNDAND VOLTAGE SUPPLY MANUAL AVAILABLE AS DOWNLOAD



### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
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### Interfaces

Number of electrical/optical connections	14
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> </ul>	
Type of electrical connection	RJ45 port
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	
Number of optical interfaces	2
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	
Design of the optical interface	BFOC port (multimode up to 5 km)
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	
Connectable optical power relative to 1 mW	-19 ... -14
<ul style="list-style-type: none"> <li>of the transmitter output</li> <li>of the receiver input / maximum</li> </ul>	-14 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-32 dB

Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 5 km

### Interfaces / for communication / integrated

Number of electrical connections / for network components or terminal equipment	12
Number of 100 Mbit/s ST(BFOC) ports <ul style="list-style-type: none"> <li>• for multimode</li> </ul>	2
Number of 100 Mbit/s SC ports <ul style="list-style-type: none"> <li>• for multimode</li> </ul>	0
Number of 1000 Mbit/s LC ports <ul style="list-style-type: none"> <li>• for multimode</li> <li>• for single mode (LD)</li> </ul>	0 0

### Interfaces / others

Number of electrical connections <ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> <li>• for redundant voltage supply</li> </ul>	1 1 1
Type of electrical connection <ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	2-pole terminal block 4-pole terminal block

### Signal-Inputs/outputs

Operating voltage / of the signaling contacts <ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts <ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>	0.1 A

### Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage <ul style="list-style-type: none"> <li>• external</li> <li>• external</li> </ul>	24 V 18 ... 32 V
Product component / fusing at power supply input	No
Consumed current / maximum	0.45 A
Active power loss <ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	5.16 W

### Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-10 ... +70 °C -40 ... +80 °C -40 ... +80 °C
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Relative humidity <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP30

### Design, dimensions and weight

Design	compact
Width	120 mm
Height	125 mm
Depth	124 mm
Net weight	1.1 kg
Mounting type <ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	Yes Yes Yes No

### Product functions / management, configuration

Product function <ul style="list-style-type: none"> <li>• multiport mirroring</li> <li>• switch-managed</li> </ul>	No No
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### Standards, specifications, approvals

Standard <ul style="list-style-type: none"> <li>• for FM</li> <li>• for hazardous zone</li> <li>• for safety / from CSA and UL</li> <li>• for hazardous zone / from CSA and UL</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 EN 60079-0:2009, EN60079-15:2010, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X UL 60950-1, CSA C22.2 No. 60950-1 UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T.., Class 1 / Zone 2 / Group IIC / T.. EN 61000-6-4:2001 EN 61000-6-2:2001
Certificate of suitability <ul style="list-style-type: none"> <li>• CE marking</li> <li>• C-Tick</li> <li>• KC approval</li> </ul>	EN 61000-6-2:2001, EN 61000-6-4:2001 Yes Yes Yes
Marine classification association <ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	Yes Yes Yes Yes Yes Yes

• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
MTBF / at 40 °C	61.3 y

### Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

Security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
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